



# FCC TEST REPORT

According to

## FCC Rules and Regulations Part 15 Subpart C

|            |  |
|------------|--|
| Applicant  | : NETGEAR, INC.  |
| Address    | : 4500 Great America Parkway, Santa Clara,<br>CA 95054 |
| Equipment  | : ProSafe Wireless-N Access Point                      |
| Model No.  | : WNAP210  |
| FCC ID     | : PY308400098  |
| Trade Name | : NETGEAR  |

### Laboratory Accreditation



Testing Laboratory  
1332

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **Cerpass Technology Corp.** the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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# CERTIFICATE OF COMPLIANCE

According to

## FCC Rules and Regulations Part 15 Subpart C

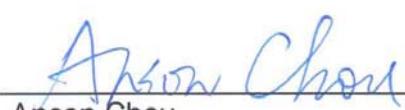
Applicant : NETGEAR, INC.  
Address : 4500 Great America Parkway, Santa Clara, CA  
95054  
Equipment : ProSafe Wireless-N Access Point  
Model No. : WNAP210  
FCC ID : PY308400098

### I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4**. The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2007)**.

The test was carried out on Jan. 09, 2009 at **Cerpass Technology Corp.**

Signature

  
Anson Chou  
EMC/RF B.U. Vice General Manager



## 1. Report of Measurements and Examinations

### 1.1 List of Measurements and Examinations

| FCC Rule                             | Description of Test                        | Result |
|--------------------------------------|--|--------|
| 15.203                               | . Antenna Requirement                      | Pass   |
| 15.207                               | . Conducted Emission                       | Pass   |
| 15.209<br>15.247(d)                  | . Radiated Emission                        | Pass   |
| 15.247(a)(2)                         | . 6dB Bandwidth                            | Pass   |
| 15.247(b)                            | . Maximum Peak Output Power                | Pass   |
| 15.247(d)                            | . 100kHz Bandwidth of Frequency Band Edges | Pass   |
| 15.247(e)                            | . Power Spectral Density                   | Pass   |
| 1.1307<br>1.1310<br>2.1091<br>2.1093 | . RF Exposure Compliance                   | Pass   |



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment under Test

| Ethernet Connection                         |  |
|---|--|
| Access Point Mode                           | On   |
| Port Speed                                  | 10/100/1000 Mbps   |
| Local Network (LAN)                         |  |
| LAN IP                                      | 192.168.0.236  |
| Subnet Mask                                 | 255.255.255.0  |
| Gateway Address                             | 192.168.0.1  |
| DHCP Client                                 | Disabled   |
| Time Zone                                   | GMT-08:00  |
| Time Zone Adjusted for Daylight Saving Time | Disabled   |
| Wireless                                    |  |
| Operating Mode                              | 11b/g/Next (20/40 MHz)   |
| Wireless Communication                      | Enabled  |
| Wireless Network Name (SSID)                | NETGEAR  |
| Broadcast Network Name SSID                 | Enabled  |
| Security                                    | Disabled   |
| Transmission Speed                          | Auto   |
| Country/Region                              | United States (in North America; otherwise, varies by region)  |
| Channel/Radio Frequency                     | 6/2.43 GHz (until the region is selected)  |
| Output Power                                | Full   |
| Wireless Card Access List                   | All wireless stations allowed  |
| Technical Specifications                    |  |
| 802.11Next Data Rates                       | 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 87.7, 115.6, 130 & 144.4 Mbps (20Hz)<br>15, 30, 45, 60, 90, 120, 135, 150, 180, 240, 270 & 300Mbps (40Hz) |
| 802.11b/g Data Rates                        | 1, 2, 5.5, 11, 12, 18, 24, 36, 38, 54 & 108 Mbps (Auto-rate capable)   |
| 802.11b/g Next Operating Frequencies        | 2.412~2.462 GHz (US), 2.457~2.462 GHz (Spain), 2.412~2.484 GHz (Japan), 2.457~2.472 GHz (France), 2.412 ~ 2.472 GHz (Europe ETSI)                      |
| 802.11b/g/ Next Encryption                  | 40-bits (also called 64-bits), 128-bits WEP data encryption, TKIP (WPA-PSK) and AES (WPA2-PSK)   |
| Network Management                          | Web-based configuration and status monitoring  |
| Maximum Clients                             | Limited by the amount of wireless network traffic generated by each node; typically 15 to 20 nodes   |
| Status LEDs                                 | Power/Ethernet LAN/Wireless LAN  |
| Power Adapter                               | MT12-Y120100-A1<br>T012LF1209  |
| Environmental Specifications                | Operating temperature: 0 to 50°C<br>Operating humidity: 5-95%, non-condensing  |



## 2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n, HT20

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 01      | 2412           | 07      | 2442           |
| 02      | 2417           | 08      | 2447           |
| 03      | 2422           | 09      | 2452           |
| 04      | 2427           | 10      | 2457           |
| 05      | 2432           | 11      | 2462           |
| 06      | 2437           | 12      | ---            |

802.11n, HT40

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| ---     | ---            | 07      | 2442           |
| ---     | ---            | 08      | 2447           |
| 03      | 2422           | 09      | 2452           |
| 04      | 2427           | ---     | ---            |
| 05      | 2432           | ---     | ---            |
| 06      | 2437           | ---     | ---            |



### 2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included remote workstation and EUT for EMI test. The remote workstation included Notebook and Prosiae Switch with POE.
- c. An executive program, “Ping.exe” under WIN XP, which transmits and receives data to the remote workstation through LAN(1000M) and Wireless.
- d. The following test mode and test software was performed for conduction and radiation test:
  - 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
  - 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz
- e. The following test modes included two kinds of power adapter:

| Test Mode    | Modulation Type | Antenna Number | Adapter Model   |
|--------------|-----------------|----------------|-----------------|
| Test Mode 1  | 802.11b+g       | ANT R          | MT12-Y120100-A1 |
| Test Mode 2  | 802.11b+g       | ANT L          |                 |
| Test Mode 3  | 802.11n HT20    | ANT R + L      |                 |
| Test Mode 4  | 802.11n HT40    | ANT R + L      |                 |
| Test Mode 5  | 802.11b+g       | ANT R          | T012LF1209      |
| Test Mode 6  | 802.11b+g       | ANT L          |                 |
| Test Mode 7  | 802.11n HT20    | ANT R + L      |                 |
| Test Mode 8  | 802.11n HT40    | ANT R + L      |                 |
| Test Mode 9  | 802.11b+g       | ANT R          | Power from POE  |
| Test Mode 10 | 802.11b+g       | ANT L          |                 |
| Test Mode 11 | 802.11n HT20    | ANT R + L      |                 |
| Test Mode 12 | 802.11n HT40    | ANT R + L      |                 |

For Conducted and Radiated emission test, Test Mode 1, 3, 4, 5, 7, 8, 9, 11, 12 would be chosen to do final test.

### 2.4 Description of Test System

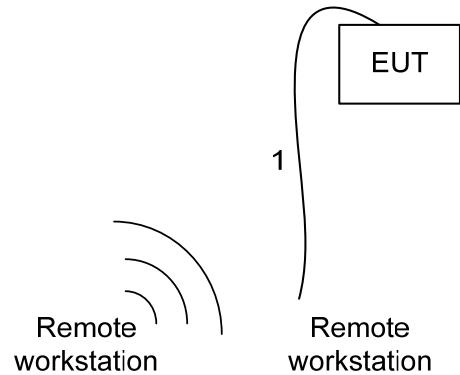
| Device   | Manufacturer | Model No.         | Description                            |
|--|--------------|-------------------|--|
| Notebook<br>(Remote Workstation)                   | DELL         | PP10L             | Power Cable, Adapter Unshielding 1.8 m |
| Notebook<br>(Remote Workstation)                   | TOSHIBA      | PSA50T-05M<br>00C | Power Cable, Adapter Unshielding 1.8 m |
| Prosiae Switch with<br>POE<br>(Remote Workstation) | NETGEAR      | FS108P            | Power Cable, Adapter Unshielding 1.8 m |

Use Cable:

| Cable | Quantity | Description       |
|-------|----------|-------------------|
| RJ45  | 1        | Unshielding, 5.0m |



## 2.5 Connection Diagram of Test System



1. The RJ45 cable is connected from EUT to the remote workstation.  
\* The EUT keeps to transmit and receive data via Notebook by Wireless.



## 2.6 General Information of Test

|                                |   |
|--------------------------------|---|
| Test Site :                    | Cerpass Technology Corp.<br>4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei<br>City 114 Taiwan R.O.C.       |
| Test Site Location (OATS1-SD): | No.68-1, Shihbachongsi, shihding Township,<br>Taipei City 223, Taiwan, R.O.C.<br>Registration Number: 632249. |
| FCC Registration Number :      | 632249  |
| IC Registration Number :       | 4934B-1   |
| VCCI Registration Number :     | T-182 for Telecommunication Test<br>C-2188 for Conducted emission test<br>R-1902 for Radiated emission test   |
| Test Voltage:                  | AC 120V   |
| Test in Compliance with:       | ANSI C63.4-2003<br>FCC Part 15 Subpart C  |
| Frequency Range Investigated:  | Conducted: from 150kHz to 30MHz<br>Radiation: from 30MHz to 24620MHz  |
| Test Distance:                 | The test distance of radiated emission from antenna to<br>EUT is 3 M.   |

## 2.7 Measurement Uncertainty

| Measurement Item                            | Measurement Frequency | Polarization | Uncertainty |
|---|-----------------------|--------------|-------------|
| Conducted Emission                          | 9 kHz ~ 30 MHz        | LINE/NEUTRAL | 2.71 dB     |
| Radiated Emission                           | 30 MHz ~ 25GHz        | Vertical     | 4.11 dB     |
|   |                       | Horizontal   | 4.10 dB     |
| 6 dB Bandwidth                              | ---                   | ---          | 7500 Hz     |
| Maximum Peak<br>Output Power                | ---                   | ---          | 1.4 dB      |
| 100kHz Bandwidth of<br>Frequency Band Edges | ---                   | ---          | 2.2 dB      |
| Power Spectral Density                      | ---                   | ---          | 2.2 dB      |



## **2.8 History of this test report**

■ ORIGINAL.

Additional attachment as following record:



### 3. Antenna Requirements

#### 3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 3.2 Antenna Construction and Directional Gain

Antenna type: Printed Antenna

Antenna Gain: 3.1 dBi (Ant R), 3.6 dBi (Ant L), 3.8 dBi (Ant M, RX Only)



## 4. Test of Conducted Emission

### 4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency<br>(MHz) | Quasi Peak<br>(dB $\mu$ V) | Average<br>(dB $\mu$ V) |
|--------------------|----------------------------|-------------------------|
| 0.15 – 0.5         | 66-56*                     | 56-46*                  |
| 0.5 – 5.0          | 56                         | 46                      |
| 5.0 – 30.0         | 60                         | 50                      |

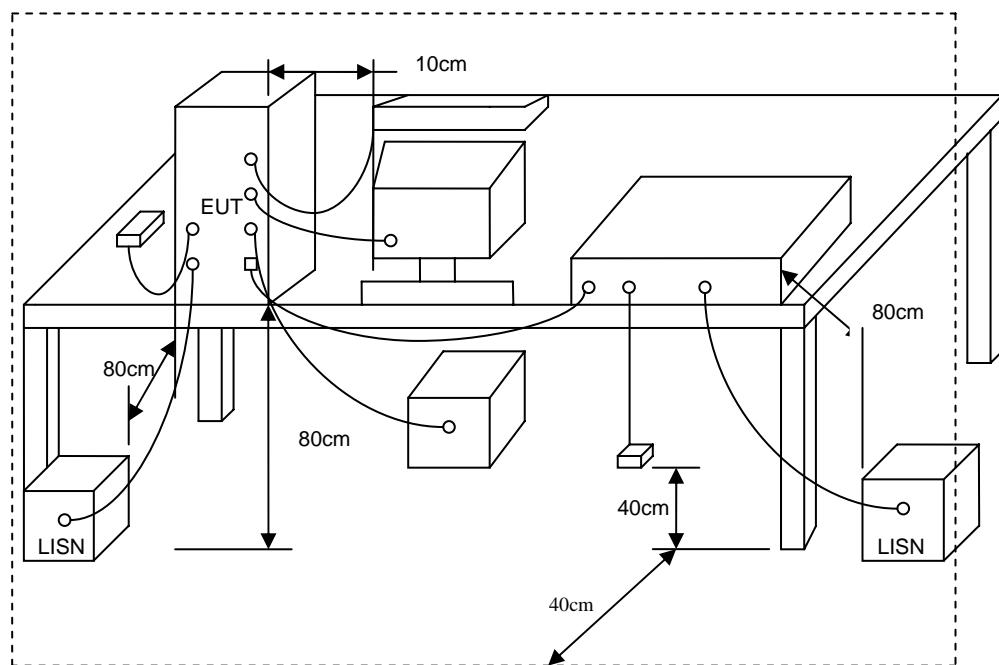
\*Decreases with the logarithm of the frequency.

### 4.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



#### 4.3 Typical Test Setup



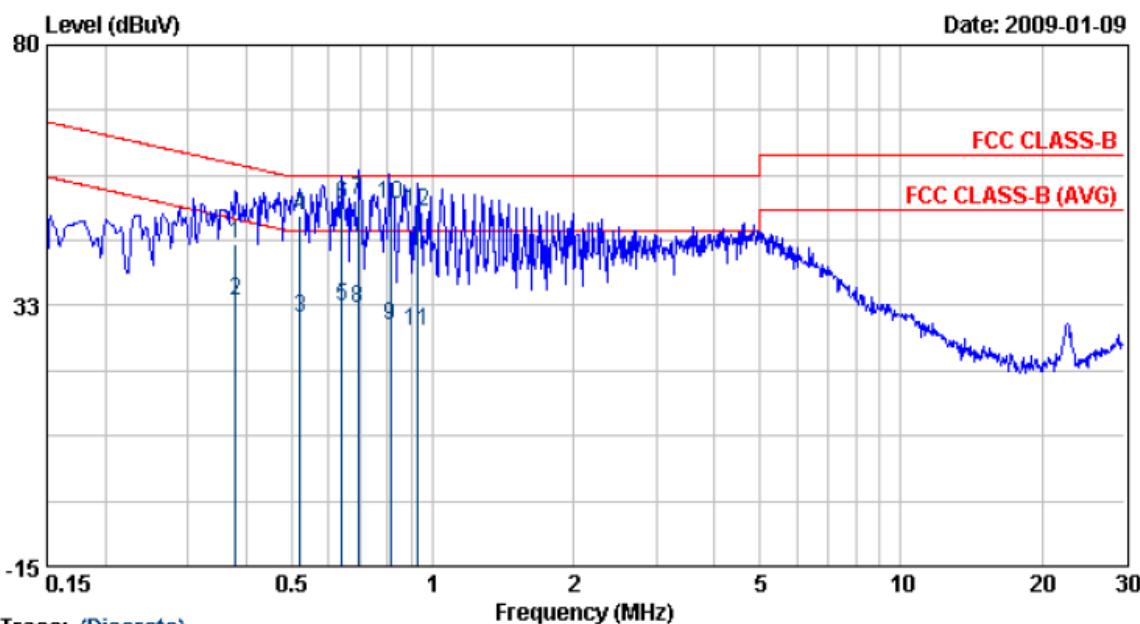
#### 4.4 Measurement equipment

| Instrument/Ancillary | Model No.  | Manufacturer | Serial No. | Calibration Date | Valid Date. |
|----------------------|------------|--------------|------------|------------------|-------------|
| EMI Receiver         | R&S        | ESCI         | 100443     | 2008/09/27       | 2009/09/26  |
| LISN                 | MESS TEC   | NNB-2/16Z    | 02/10191   | 2008/05/14       | 2009/05/13  |
| LISN                 | ROLF HEINE | NNB-2/16Z    | 03/10058   | 2008/04/19       | 2009/04/18  |



## 4.5 Test Result and Data

|             |                            |             |         |
|-------------|----------------------------|-------------|---------|
| Power       | : AC 120V                  | Pol/Phase   | : LINE  |
| Test Mode 1 | : 802.11g CH1              | Temperature | : 23 °C |
| Memo        | : Adapter: MT12-Y120100-A1 | Humidity    | : 51 %  |

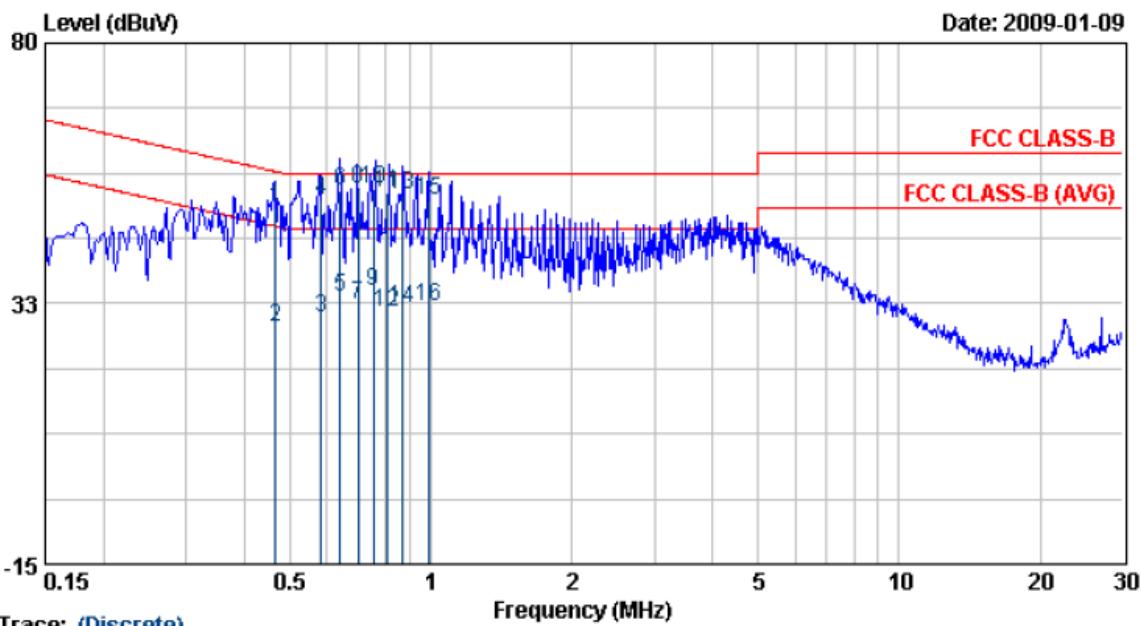


| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.38 | 43.74      | 0.12   | 43.86  | 58.29 | -14.43 | QP      |
| 2    | 0.38 | 33.14      | 0.12   | 33.26  | 48.29 | -15.03 | AVERAGE |
| 3    | 0.52 | 30.20      | 0.13   | 30.33  | 46.00 | -15.67 | AVERAGE |
| 4    | 0.52 | 48.69      | 0.13   | 48.82  | 56.00 | -7.18  | QP      |
| 5    | 0.64 | 32.29      | 0.14   | 32.43  | 46.00 | -13.57 | AVERAGE |
| 6    | 0.64 | 50.89      | 0.14   | 51.03  | 56.00 | -4.97  | QP      |
| 7    | 0.69 | 51.44      | 0.14   | 51.58  | 56.00 | -4.42  | QP      |
| 8    | 0.69 | 31.86      | 0.14   | 32.01  | 46.00 | -13.99 | AVERAGE |
| 9    | 0.81 | 28.75      | 0.15   | 28.90  | 46.00 | -17.10 | AVERAGE |
| 10   | 0.81 | 50.86      | 0.15   | 51.01  | 56.00 | -4.99  | QP      |
| 11   | 0.93 | 27.66      | 0.16   | 27.82  | 46.00 | -18.18 | AVERAGE |
| 12   | 0.93 | 49.47      | 0.16   | 49.63  | 56.00 | -6.37  | QP      |

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. All emission below 1GHz at 802.11b/g mode are all the same, so the 802.11g mode chosen as representative in final test.
  4. According to technical experiences, all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
  5. The data is worse case.



|             |                            |             |           |
|-------------|----------------------------|-------------|-----------|
| Power       | : AC 120V                  | Pol/Phase   | : NEUTRAL |
| Test Mode 1 | : 802.11g CH1              | Temperature | : 23 °C   |
| Memo        | : Adapter: MT12-Y120100-A1 | Humidity    | : 51 %    |



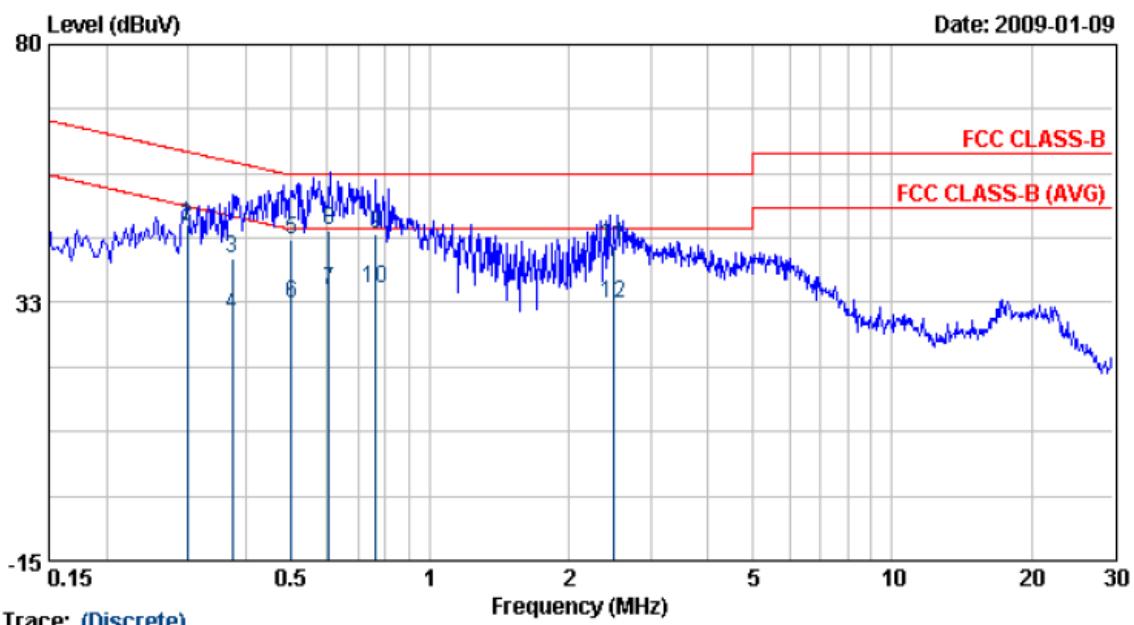
Trace: (Discrete)

| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.47 | 49.76      | 0.15   | 49.92  | 56.60 | -6.68  | QP      |
| 2    | 0.47 | 28.05      | 0.15   | 28.20  | 46.60 | -18.40 | AVERAGE |
| 3    | 0.58 | 29.83      | 0.16   | 29.99  | 46.00 | -16.01 | AVERAGE |
| 4    | 0.58 | 51.21      | 0.16   | 51.37  | 56.00 | -4.63  | QP      |
| 5    | 0.64 | 33.49      | 0.17   | 33.65  | 46.00 | -12.35 | AVERAGE |
| 6    | 0.64 | 52.83      | 0.17   | 53.00  | 56.00 | -3.00  | QP      |
| 7    | 0.70 | 32.32      | 0.17   | 32.48  | 46.00 | -13.52 | AVERAGE |
| 8    | 0.70 | 53.32      | 0.17   | 53.48  | 56.00 | -2.52  | QP      |
| 9    | 0.76 | 34.65      | 0.17   | 34.82  | 46.00 | -11.18 | AVERAGE |
| 10   | 0.76 | 53.31      | 0.17   | 53.48  | 56.00 | -2.52  | QP      |
| 11   | 0.81 | 52.68      | 0.17   | 52.85  | 56.00 | -3.15  | QP      |
| 12   | 0.81 | 30.86      | 0.17   | 31.04  | 46.00 | -14.96 | AVERAGE |
| 13   | 0.87 | 52.34      | 0.18   | 52.51  | 56.00 | -3.49  | QP      |
| 14   | 0.87 | 31.47      | 0.18   | 31.65  | 46.00 | -14.35 | AVERAGE |
| 15   | 0.99 | 51.05      | 0.18   | 51.22  | 56.00 | -4.78  | QP      |
| 16   | 0.99 | 31.82      | 0.18   | 32.00  | 46.00 | -14.00 | AVERAGE |

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. All emission below 1GHz at 802.11b/g mode are all the same, so the 802.11g mode chosen as representative in final test.
  4. According to technical experiences, all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
  5. The data is worse case.



|             |                            |             |         |
|-------------|----------------------------|-------------|---------|
| Power       | : AC 120V                  | Pol/Phase   | : LINE  |
| Test Mode 3 | : 802.11n HT20 CH1         | Temperature | : 23 °C |
| Memo        | : Adapter: MT12-Y120100-A1 | Humidity    | : 51 %  |



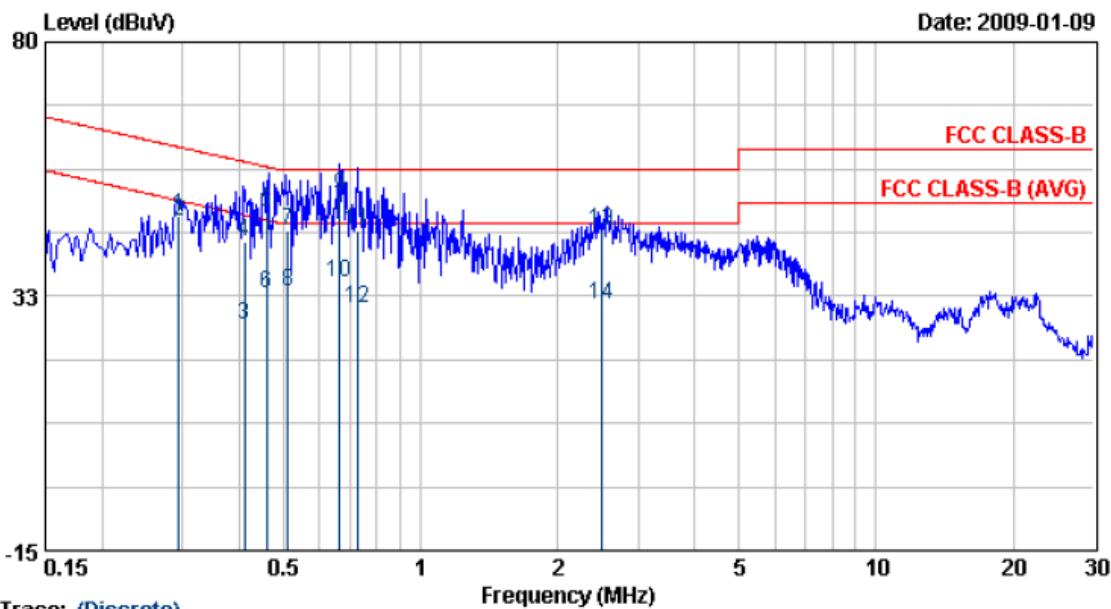
| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.30 | 46.79      | 0.12   | 46.91  | 60.28 | -13.37 | QP      |
| 2    | 0.30 | 46.30      | 0.12   | 46.42  | 50.28 | -3.86  | AVERAGE |
| 3    | 0.37 | 40.36      | 0.12   | 40.48  | 58.42 | -17.94 | QP      |
| 4    | 0.37 | 30.21      | 0.12   | 30.33  | 48.42 | -18.09 | AVERAGE |
| 5    | 0.50 | 43.79      | 0.13   | 43.92  | 56.00 | -12.08 | QP      |
| 6    | 0.50 | 32.15      | 0.13   | 32.28  | 46.00 | -13.72 | AVERAGE |
| 7    | 0.61 | 34.69      | 0.14   | 34.83  | 46.00 | -11.17 | AVERAGE |
| 8    | 0.61 | 45.62      | 0.14   | 45.76  | 56.00 | -10.24 | QP      |
| 9    | 0.77 | 44.97      | 0.15   | 45.12  | 56.00 | -10.88 | QP      |
| 10   | 0.77 | 34.83      | 0.15   | 34.98  | 46.00 | -11.02 | AVERAGE |
| 11   | 2.51 | 42.65      | 0.26   | 42.91  | 56.00 | -13.09 | QP      |
| 12   | 2.51 | 31.96      | 0.26   | 32.22  | 46.00 | -13.78 | AVERAGE |

## Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISM) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11 MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
4. The data is worse case.



|             |                          |             |         |
|-------------|--------------------------|-------------|---------|
| Power       | AC 120V                  | Pol/Phase   | NEUTRAL |
| Test Mode 3 | 802.11n HT20 CH1         | Temperature | 23 °C   |
| Memo        | Adapter: MT12-Y120100-A1 | Humidity    | 51 %    |



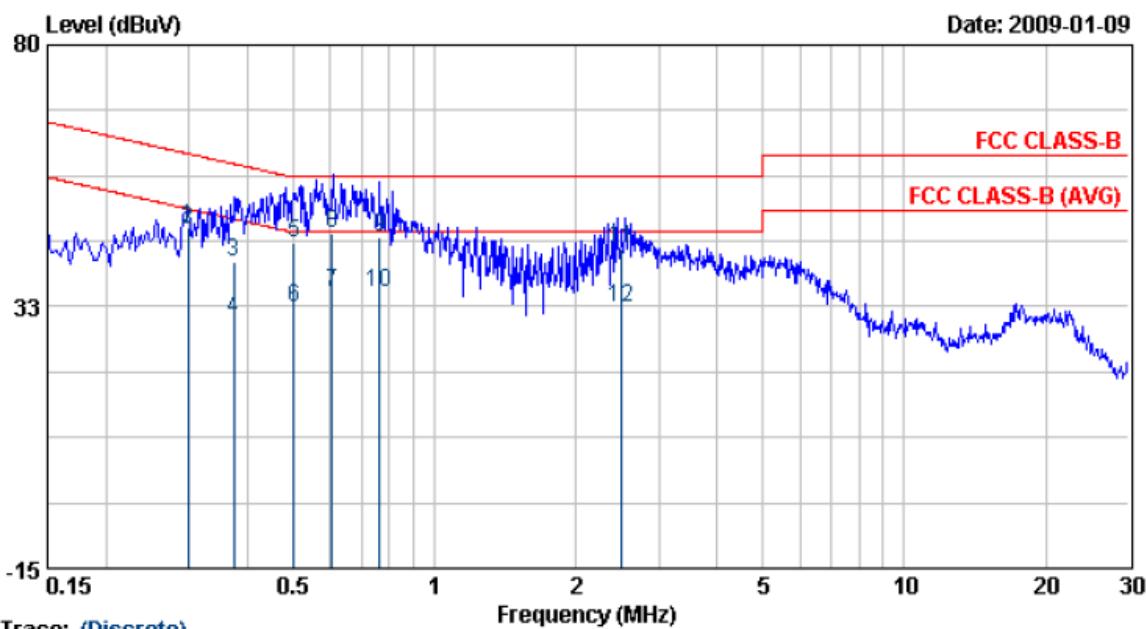
| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.29 | 47.40      | 0.14   | 47.54  | 60.40 | -12.85 | QP      |
| 2    | 0.29 | 46.22      | 0.14   | 46.36  | 50.40 | -4.04  | AVERAGE |
| 3    | 0.41 | 27.00      | 0.15   | 27.15  | 47.65 | -20.50 | AVERAGE |
| 4    | 0.41 | 42.46      | 0.15   | 42.62  | 57.65 | -15.04 | QP      |
| 5    | 0.46 | 48.02      | 0.15   | 48.18  | 56.70 | -8.53  | QP      |
| 6    | 0.46 | 32.74      | 0.15   | 32.89  | 46.70 | -13.81 | AVERAGE |
| 7    | 0.51 | 44.64      | 0.16   | 44.79  | 56.00 | -11.21 | QP      |
| 8    | 0.51 | 33.14      | 0.16   | 33.30  | 46.00 | -12.70 | AVERAGE |
| 9    | 0.67 | 51.29      | 0.17   | 51.46  | 56.00 | -4.54  | QP      |
| 10   | 0.67 | 34.82      | 0.17   | 34.99  | 46.00 | -11.01 | AVERAGE |
| 11   | 0.73 | 44.71      | 0.17   | 44.88  | 56.00 | -11.12 | QP      |
| 12   | 0.73 | 30.05      | 0.17   | 30.22  | 46.00 | -15.78 | AVERAGE |
| 13   | 2.50 | 44.55      | 0.25   | 44.80  | 56.00 | -11.20 | QP      |
| 14   | 2.50 | 30.66      | 0.25   | 30.91  | 46.00 | -15.09 | AVERAGE |

## Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
4. The data is worse case.



|               |                          |               |       |
|---------------|--------------------------|---------------|-------|
| Power :       | AC 120V                  | Pol/Phase :   | LINE  |
| Test Mode 4 : | 802.11n HT40 CH3         | Temperature : | 23 °C |
| Memo :        | Adapter: MT12-Y120100-A1 | Humidity :    | 51 %  |



## Trace: (Discrete)

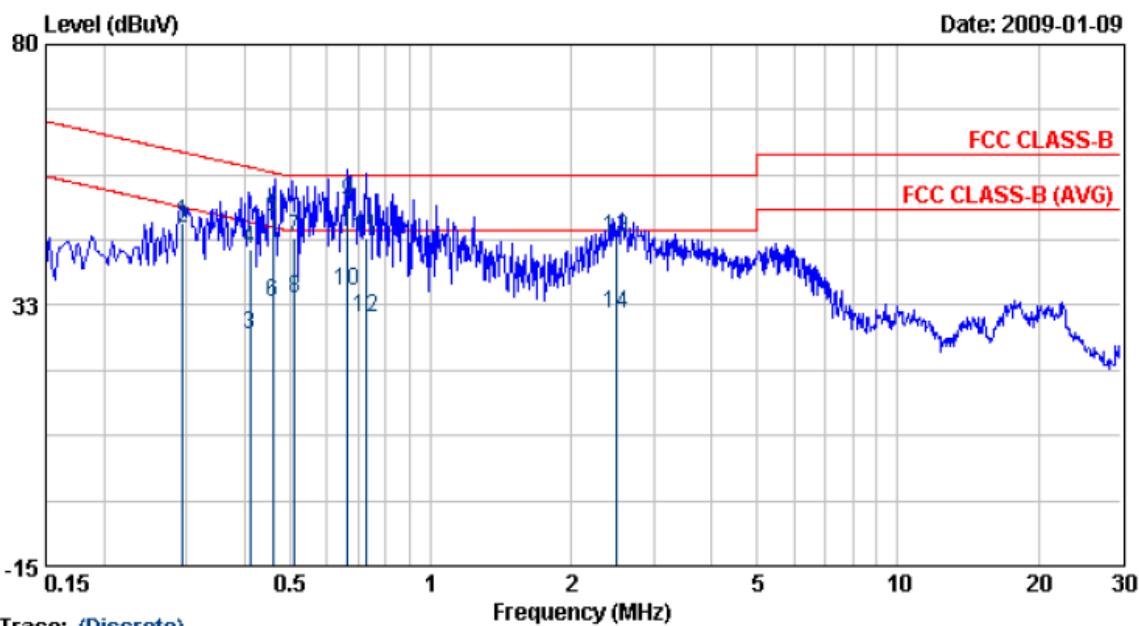
| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.30 | 46.87      | 0.12   | 46.99  | 60.28 | -13.29 | QP      |
| 2    | 0.30 | 46.28      | 0.12   | 46.40  | 50.28 | -3.88  | AVERAGE |
| 3    | 0.37 | 40.61      | 0.12   | 40.73  | 58.42 | -17.69 | QP      |
| 4    | 0.37 | 30.29      | 0.12   | 30.41  | 48.42 | -18.01 | AVERAGE |
| 5    | 0.50 | 43.91      | 0.13   | 44.04  | 56.00 | -11.96 | QP      |
| 6    | 0.50 | 32.10      | 0.13   | 32.23  | 46.00 | -13.77 | AVERAGE |
| 7    | 0.61 | 34.95      | 0.14   | 35.09  | 46.00 | -10.91 | AVERAGE |
| 8    | 0.61 | 45.65      | 0.14   | 45.79  | 56.00 | -10.21 | QP      |
| 9    | 0.77 | 44.97      | 0.15   | 45.12  | 56.00 | -10.88 | QP      |
| 10   | 0.77 | 34.87      | 0.15   | 35.02  | 46.00 | -10.98 | AVERAGE |
| 11   | 2.51 | 42.63      | 0.26   | 42.89  | 56.00 | -13.11 | QP      |
| 12   | 2.51 | 31.91      | 0.26   | 32.17  | 46.00 | -13.83 | AVERAGE |

## Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
4. The data is worse case.



|             |   |                          |             |   |         |
|-------------|---|--------------------------|-------------|---|---------|
| Power       | : | AC 120V                  | Pol/Phase   | : | NEUTRAL |
| Test Mode 4 | : | 802.11n HT40 CH3         | Temperature | : | 23 °C   |
| Memo        | : | Adapter: MT12-Y120100-A1 | Humidity    | : | 51 %    |



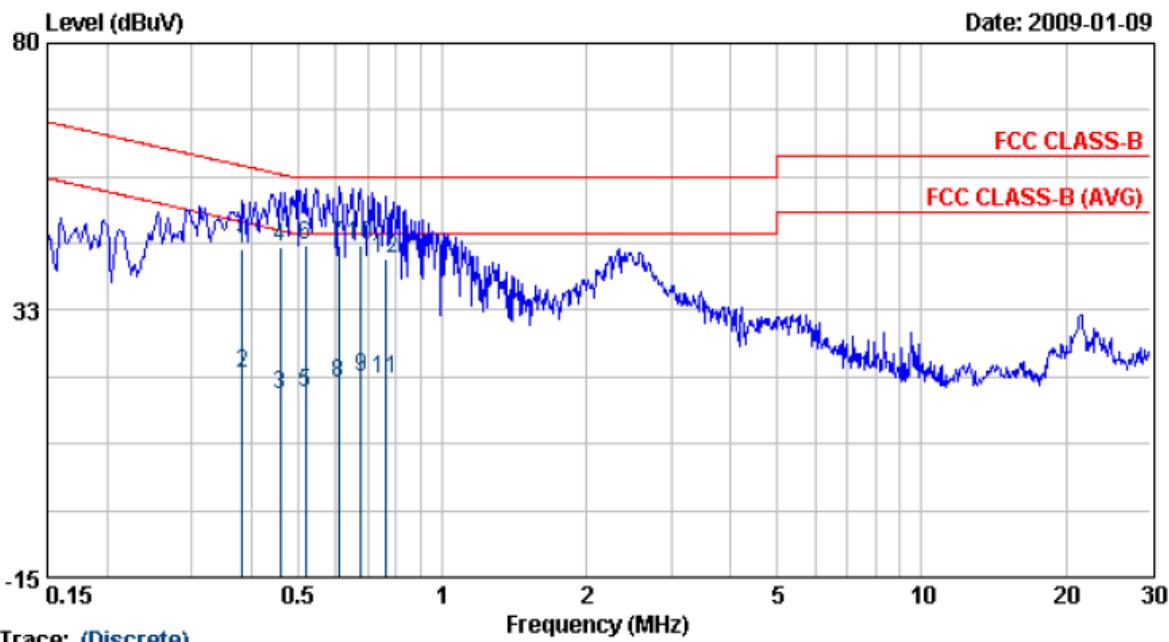
| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.29 | 47.44      | 0.14   | 47.58  | 60.40 | -12.82 | QP      |
| 2    | 0.29 | 46.25      | 0.14   | 46.39  | 50.40 | -4.00  | AVERAGE |
| 3    | 0.41 | 26.99      | 0.15   | 27.14  | 47.65 | -20.52 | AVERAGE |
| 4    | 0.41 | 42.45      | 0.15   | 42.60  | 57.65 | -15.05 | QP      |
| 5    | 0.46 | 48.53      | 0.15   | 48.68  | 56.70 | -8.02  | QP      |
| 6    | 0.46 | 32.71      | 0.15   | 32.86  | 46.70 | -13.84 | AVERAGE |
| 7    | 0.51 | 44.62      | 0.16   | 44.78  | 56.00 | -11.22 | QP      |
| 8    | 0.51 | 33.65      | 0.16   | 33.81  | 46.00 | -12.19 | AVERAGE |
| 9    | 0.67 | 51.20      | 0.17   | 51.37  | 56.00 | -4.63  | QP      |
| 10   | 0.67 | 34.84      | 0.17   | 35.00  | 46.00 | -11.00 | AVERAGE |
| 11   | 0.73 | 44.75      | 0.17   | 44.92  | 56.00 | -11.08 | QP      |
| 12   | 0.73 | 30.03      | 0.17   | 30.20  | 46.00 | -15.80 | AVERAGE |
| 13   | 2.50 | 44.51      | 0.25   | 44.76  | 56.00 | -11.24 | QP      |
| 14   | 2.50 | 30.56      | 0.25   | 30.81  | 46.00 | -15.19 | AVERAGE |

## Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
4. The data is worse case.



|             |                       |             |         |
|-------------|-----------------------|-------------|---------|
| Power       | : AC 120V             | Pol/Phase   | : LINE  |
| Test Mode 5 | : 802.11g CH1         | Temperature | : 23 °C |
| Memo        | : Adapter: T012LF1209 | Humidity    | : 51 %  |

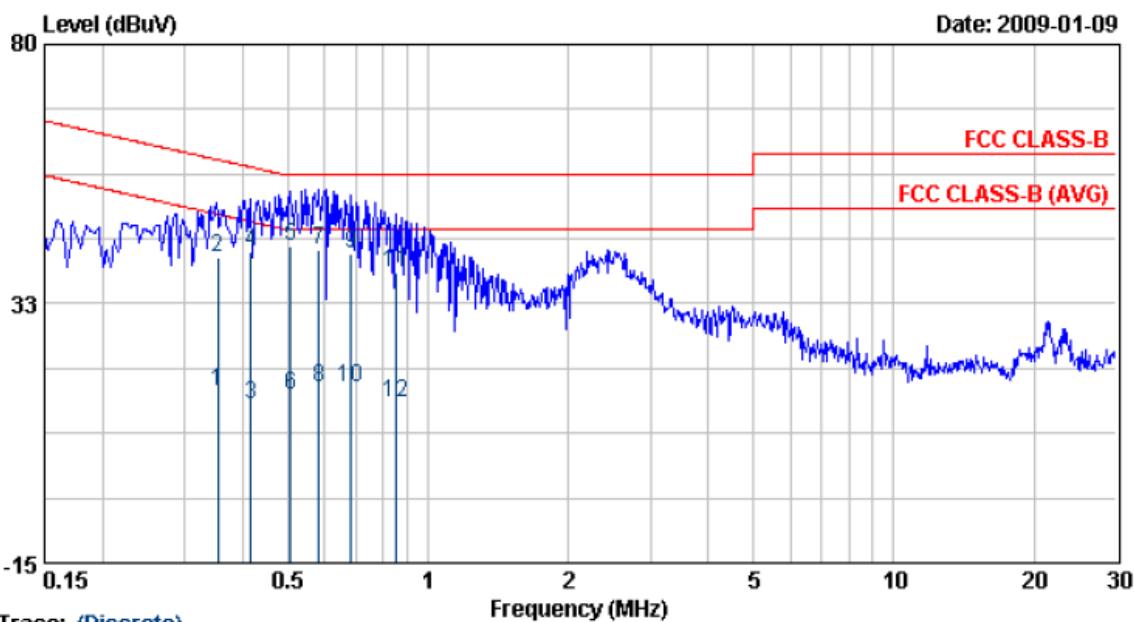


| Item | Freq<br>MHz | Read<br>Value<br>dBuV | Factor<br>dB | Result<br>dBuV | Limit<br>dBuV | Margin<br>dBuV | Remark  |
|------|-------------|-----------------------|--------------|----------------|---------------|----------------|---------|
| 1    | 0.38        | 43.39                 | 0.12         | 43.51          | 58.22         | -14.71         | QP      |
| 2    | 0.38        | 21.31                 | 0.12         | 21.43          | 48.22         | -26.78         | AVERAGE |
| 3    | 0.46        | 17.39                 | 0.13         | 17.52          | 46.73         | -29.21         | AVERAGE |
| 4    | 0.46        | 43.50                 | 0.13         | 43.62          | 56.73         | -13.10         | QP      |
| 5    | 0.52        | 17.79                 | 0.13         | 17.92          | 46.00         | -28.08         | AVERAGE |
| 6    | 0.52        | 44.07                 | 0.13         | 44.20          | 56.00         | -11.80         | QP      |
| 7    | 0.61        | 43.81                 | 0.14         | 43.95          | 56.00         | -12.05         | QP      |
| 8    | 0.61        | 19.49                 | 0.14         | 19.63          | 46.00         | -26.37         | AVERAGE |
| 9    | 0.68        | 20.50                 | 0.14         | 20.64          | 46.00         | -25.36         | AVERAGE |
| 10   | 0.68        | 43.99                 | 0.14         | 44.13          | 56.00         | -11.87         | QP      |
| 11   | 0.76        | 20.06                 | 0.15         | 20.20          | 46.00         | -25.80         | AVERAGE |
| 12   | 0.76        | 41.46                 | 0.15         | 41.61          | 56.00         | -14.39         | QP      |

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. All emission below 1GHz at 802.11b/g mode are all the same, so the 802.11g mode chosen as representative in final test.
  4. According to technical experiences, all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
  5. The data is worse case.



|             |                       |             |           |
|-------------|-----------------------|-------------|-----------|
| Power       | : AC 120V             | Pol/Phase   | : NEUTRAL |
| Test Mode 5 | : 802.11g CH1         | Temperature | : 23 °C   |
| Memo        | : Adapter: T012LF1209 | Humidity    | : 51 %    |

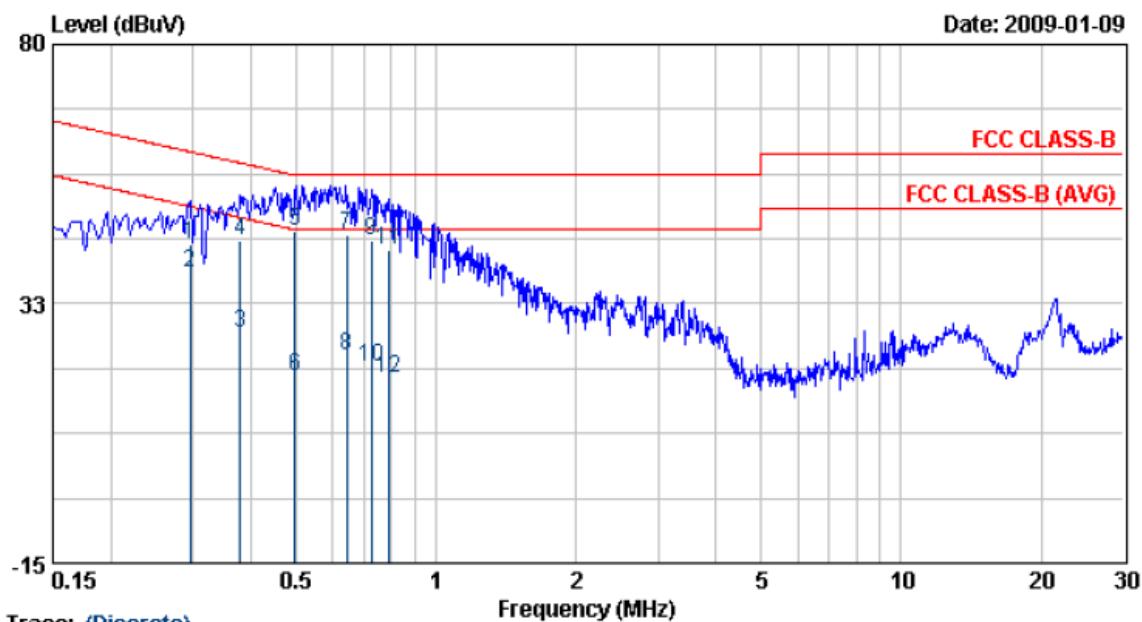


| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.35 | 16.21      | 0.15   | 16.35  | 48.88 | -32.53 | AVERAGE |
| 2    | 0.35 | 40.95      | 0.15   | 41.09  | 58.88 | -17.79 | QP      |
| 3    | 0.42 | 14.01      | 0.15   | 14.16  | 47.53 | -33.37 | AVERAGE |
| 4    | 0.42 | 41.72      | 0.15   | 41.87  | 57.53 | -15.65 | QP      |
| 5    | 0.51 | 42.84      | 0.16   | 43.00  | 56.00 | -13.00 | QP      |
| 6    | 0.51 | 15.42      | 0.16   | 15.58  | 46.00 | -30.42 | AVERAGE |
| 7    | 0.58 | 42.14      | 0.16   | 42.30  | 56.00 | -13.70 | QP      |
| 8    | 0.58 | 17.03      | 0.16   | 17.19  | 46.00 | -28.81 | AVERAGE |
| 9    | 0.68 | 41.65      | 0.17   | 41.82  | 56.00 | -14.18 | QP      |
| 10   | 0.68 | 17.09      | 0.17   | 17.26  | 46.00 | -28.74 | AVERAGE |
| 11   | 0.85 | 37.88      | 0.17   | 38.06  | 56.00 | -17.94 | QP      |
| 12   | 0.85 | 14.05      | 0.17   | 14.22  | 46.00 | -31.78 | AVERAGE |

- Remarks:
1. Level = Read Level + Factor
  2. Factor = LISN(ISN) Factor + Cable Loss
  3. All emission below 1GHz at 802.11b/g mode are all the same, so the 802.11g mode chosen as representative in final test.
  4. According to technical experiences, all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
  5. The data is worse case.



|             |                       |             |         |
|-------------|-----------------------|-------------|---------|
| Power       | : AC 120V             | Pol/Phase   | : LINE  |
| Test Mode 7 | : 802.11n HT20 CH1    | Temperature | : 24 °C |
| Memo        | : Adapter: T012LF1209 | Humidity    | : 52 %  |



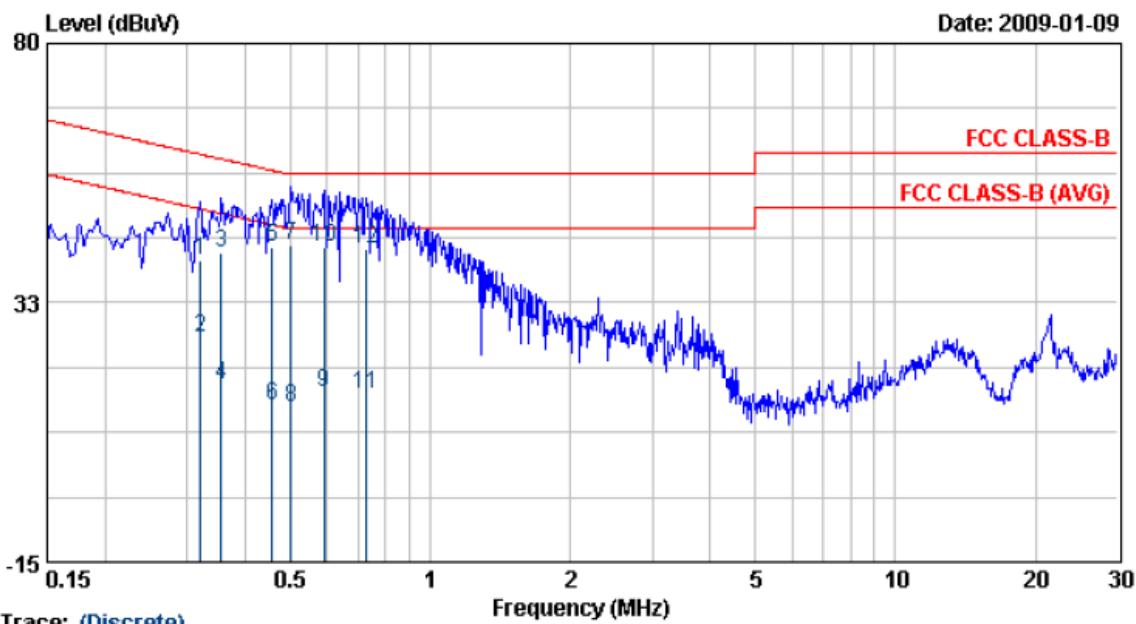
| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.30 | 43.27      | 0.12   | 43.39  | 60.37 | -16.98 | QP      |
| 2    | 0.30 | 38.05      | 0.12   | 38.17  | 50.37 | -12.20 | AVERAGE |
| 3    | 0.38 | 27.12      | 0.12   | 27.24  | 48.30 | -21.06 | AVERAGE |
| 4    | 0.38 | 44.00      | 0.12   | 44.12  | 58.30 | -14.18 | QP      |
| 5    | 0.50 | 45.67      | 0.13   | 45.80  | 56.04 | -10.24 | QP      |
| 6    | 0.50 | 19.23      | 0.13   | 19.36  | 46.04 | -26.68 | AVERAGE |
| 7    | 0.64 | 45.04      | 0.14   | 45.18  | 56.00 | -10.82 | QP      |
| 8    | 0.64 | 22.91      | 0.14   | 23.05  | 46.00 | -22.95 | AVERAGE |
| 9    | 0.73 | 44.08      | 0.15   | 44.23  | 56.00 | -11.77 | QP      |
| 10   | 0.73 | 20.73      | 0.15   | 20.88  | 46.00 | -25.12 | AVERAGE |
| 11   | 0.79 | 42.34      | 0.15   | 42.49  | 56.00 | -13.51 | QP      |
| 12   | 0.79 | 18.72      | 0.15   | 18.87  | 46.00 | -27.13 | AVERAGE |

## Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
4. The data is worse case.



|             |                       |             |           |
|-------------|-----------------------|-------------|-----------|
| Power       | : AC 120V             | Pol/Phase   | : NEUTRAL |
| Test Mode 7 | : 802.11n HT20 CH1    | Temperature | : 24 °C   |
| Memo        | : Adapter: T012LF1209 | Humidity    | : 52 %    |



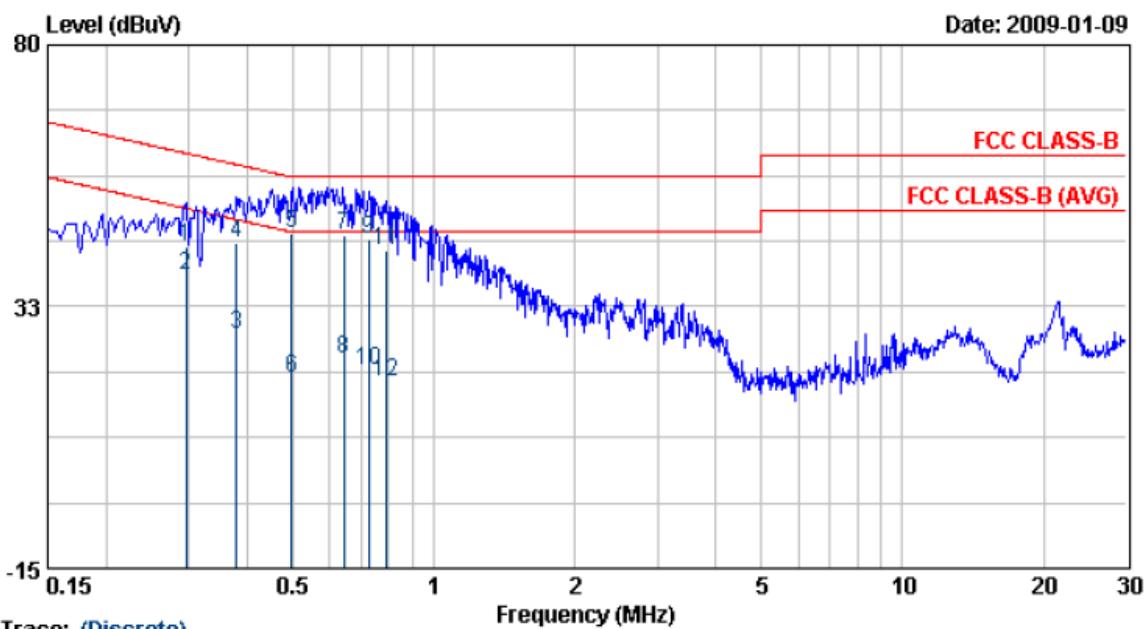
| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.32 | 40.19      | 0.14   | 40.34  | 59.71 | -19.37 | QP      |
| 2    | 0.32 | 26.00      | 0.14   | 26.14  | 49.71 | -23.56 | AVERAGE |
| 3    | 0.36 | 41.35      | 0.15   | 41.49  | 58.83 | -17.33 | QP      |
| 4    | 0.36 | 17.26      | 0.15   | 17.41  | 48.83 | -31.42 | AVERAGE |
| 5    | 0.46 | 42.44      | 0.15   | 42.60  | 56.76 | -14.16 | QP      |
| 6    | 0.46 | 13.45      | 0.15   | 13.61  | 46.76 | -33.15 | AVERAGE |
| 7    | 0.50 | 42.82      | 0.16   | 42.98  | 56.00 | -13.02 | QP      |
| 8    | 0.50 | 13.21      | 0.16   | 13.36  | 46.00 | -32.64 | AVERAGE |
| 9    | 0.59 | 15.79      | 0.16   | 15.95  | 46.00 | -30.05 | AVERAGE |
| 10   | 0.59 | 42.60      | 0.16   | 42.76  | 56.00 | -13.24 | QP      |
| 11   | 0.73 | 15.74      | 0.17   | 15.91  | 46.00 | -30.09 | AVERAGE |
| 12   | 0.73 | 42.07      | 0.17   | 42.24  | 56.00 | -13.76 | QP      |

## Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
4. The data is worse case.



|               |                     |               |       |
|---------------|---------------------|---------------|-------|
| Power :       | AC 120V             | Pol/Phase :   | LINE  |
| Test Mode 8 : | 802.11n HT40 CH3    | Temperature : | 23 °C |
| Memo :        | Adapter: T012LF1209 | Humidity :    | 51 %  |



## Trace: (Discrete)

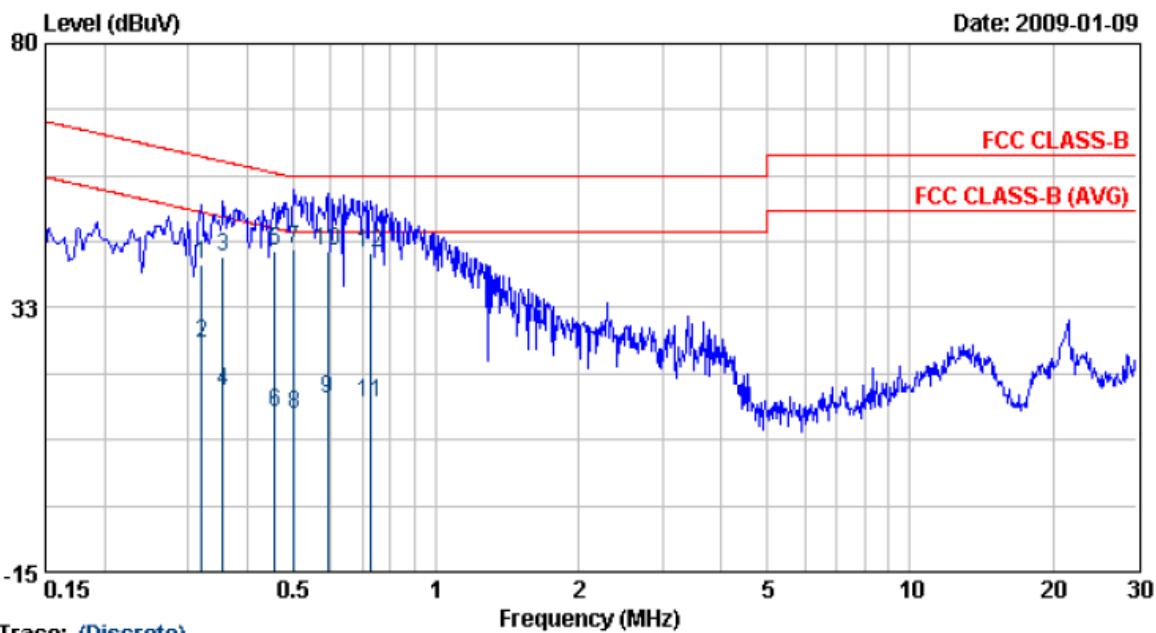
| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.30 | 43.21      | 0.12   | 43.33  | 60.37 | -17.04 | QP      |
| 2    | 0.30 | 38.01      | 0.12   | 38.13  | 50.37 | -12.24 | AVERAGE |
| 3    | 0.38 | 27.22      | 0.12   | 27.34  | 48.30 | -20.96 | AVERAGE |
| 4    | 0.38 | 44.11      | 0.12   | 44.23  | 58.30 | -14.07 | QP      |
| 5    | 0.50 | 45.61      | 0.13   | 45.74  | 56.04 | -10.30 | QP      |
| 6    | 0.50 | 19.30      | 0.13   | 19.43  | 46.04 | -26.61 | AVERAGE |
| 7    | 0.64 | 45.38      | 0.14   | 45.52  | 56.00 | -10.48 | QP      |
| 8    | 0.64 | 22.98      | 0.14   | 23.12  | 46.00 | -22.88 | AVERAGE |
| 9    | 0.73 | 44.79      | 0.15   | 44.94  | 56.00 | -11.06 | QP      |
| 10   | 0.73 | 20.71      | 0.15   | 20.85  | 46.00 | -25.15 | AVERAGE |
| 11   | 0.79 | 42.41      | 0.15   | 42.56  | 56.00 | -13.44 | QP      |
| 12   | 0.79 | 18.79      | 0.15   | 18.94  | 46.00 | -27.06 | AVERAGE |

## Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
4. The data is worse case.



|             |                       |             |           |
|-------------|-----------------------|-------------|-----------|
| Power       | : AC 120V             | Pol/Phase   | : NEUTRAL |
| Test Mode 8 | : 802.11n HT40 CH3    | Temperature | : 23 °C   |
| Memo        | : Adapter: T012LF1209 | Humidity    | : 51 %    |



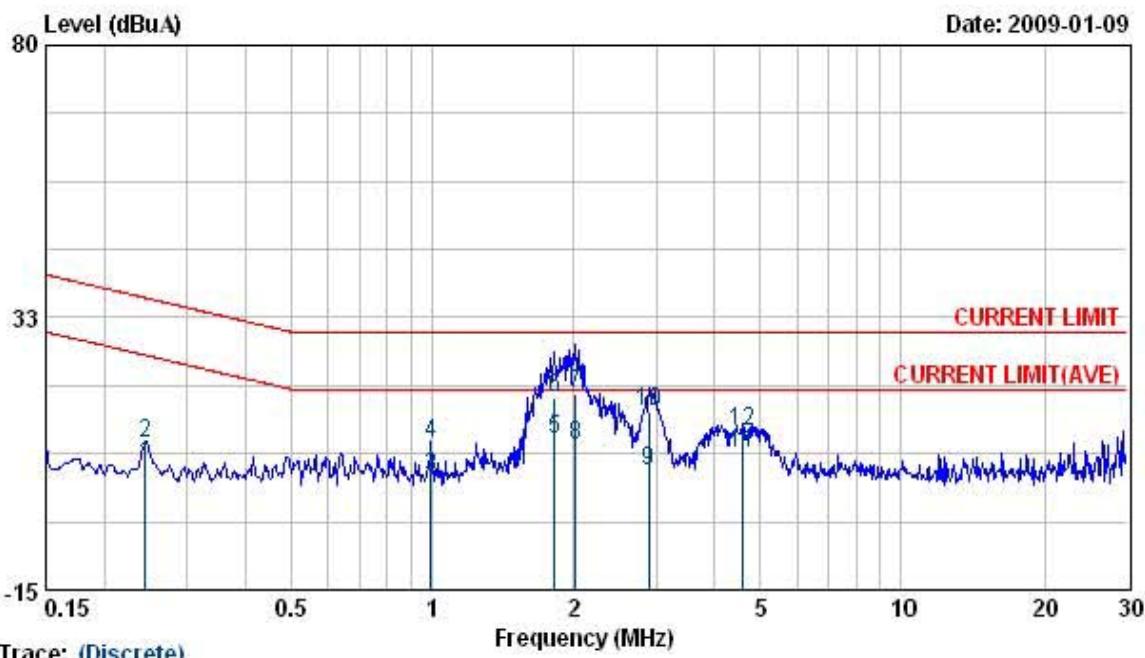
| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuV       | dB     | dBuV   | dBuV  | dBuV   |         |
| 1    | 0.32 | 40.15      | 0.14   | 40.29  | 59.71 | -19.42 | QP      |
| 2    | 0.32 | 26.00      | 0.14   | 26.15  | 49.71 | -23.56 | AVERAGE |
| 3    | 0.36 | 41.36      | 0.15   | 41.51  | 58.83 | -17.32 | QP      |
| 4    | 0.36 | 17.22      | 0.15   | 17.36  | 48.83 | -31.46 | AVERAGE |
| 5    | 0.46 | 42.41      | 0.15   | 42.56  | 56.76 | -14.19 | QP      |
| 6    | 0.46 | 13.44      | 0.15   | 13.60  | 46.76 | -33.16 | AVERAGE |
| 7    | 0.50 | 42.90      | 0.16   | 43.05  | 56.00 | -12.95 | QP      |
| 8    | 0.50 | 13.28      | 0.16   | 13.43  | 46.00 | -32.57 | AVERAGE |
| 9    | 0.59 | 15.90      | 0.16   | 16.06  | 46.00 | -29.94 | AVERAGE |
| 10   | 0.59 | 42.57      | 0.16   | 42.73  | 56.00 | -13.27 | QP      |
| 11   | 0.73 | 15.38      | 0.17   | 15.55  | 46.00 | -30.45 | AVERAGE |
| 12   | 0.73 | 42.09      | 0.17   | 42.26  | 56.00 | -13.74 | QP      |

## Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
4. The data is worse case.



|               |             |               |       |
|---------------|-------------|---------------|-------|
| Power :       | From POE    | Temperature : | 23 °C |
| Test Mode 9 : | 802.11g CH1 | Humidity :    | 51 %  |
| Memo :        |             |               |       |

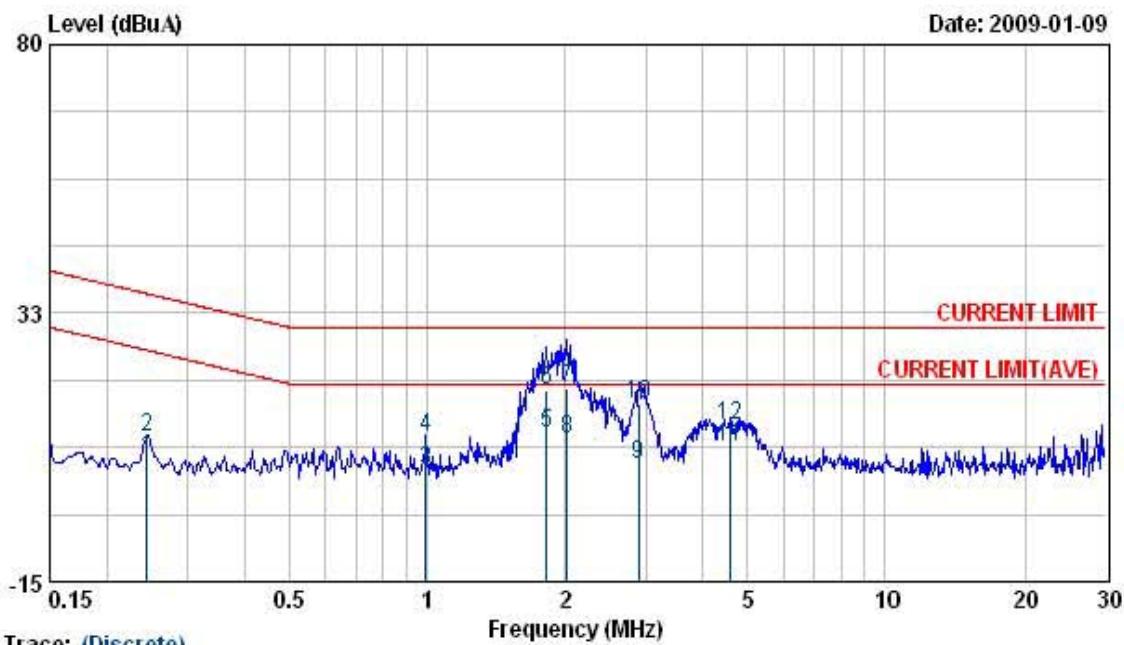


| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|--------|--------|-------|--------|---------|
|      | MHz  | dBuA       | dB     | dBuA   | dBuA  | dBuA   |         |
| 1    | 0.24 | 6.34       | 0.28   | 6.62   | 25.95 | -19.33 | AVERAGE |
| 2    | 0.24 | 10.20      | 0.28   | 10.48  | 35.95 | -25.47 | QP      |
| 3    | 0.99 | 4.52       | 0.32   | 4.84   | 20.00 | -15.16 | AVERAGE |
| 4    | 0.99 | 10.14      | 0.32   | 10.46  | 30.00 | -19.54 | QP      |
| 5    | 1.82 | 11.00      | 0.32   | 11.32  | 20.00 | -8.68  | AVERAGE |
| 6    | 1.82 | 18.17      | 0.32   | 18.49  | 30.00 | -11.51 | QP      |
| 7    | 2.02 | 18.90      | 0.32   | 19.22  | 30.00 | -10.78 | QP      |
| 8    | 2.02 | 9.76       | 0.32   | 10.08  | 20.00 | -9.92  | AVERAGE |
| 9    | 2.90 | 5.38       | 0.32   | 5.70   | 20.00 | -14.30 | AVERAGE |
| 10   | 2.90 | 15.94      | 0.32   | 16.26  | 30.00 | -13.74 | QP      |
| 11   | 4.57 | 8.45       | 0.33   | 8.78   | 20.00 | -11.22 | AVERAGE |
| 12   | 4.57 | 12.30      | 0.33   | 12.63  | 30.00 | -17.37 | QP      |

Remarks: 1. Result = Read Value + Factor  
2. Factor = LISN(ISN) Factor + Cable Loss



|                |                  |               |       |
|----------------|------------------|---------------|-------|
| Power :        | From POE         | Temperature : | 23 °C |
| Test Mode 11 : | 802.11n HT20 CH1 | Humidity :    | 51 %  |
| Memo :         |                  |               |       |

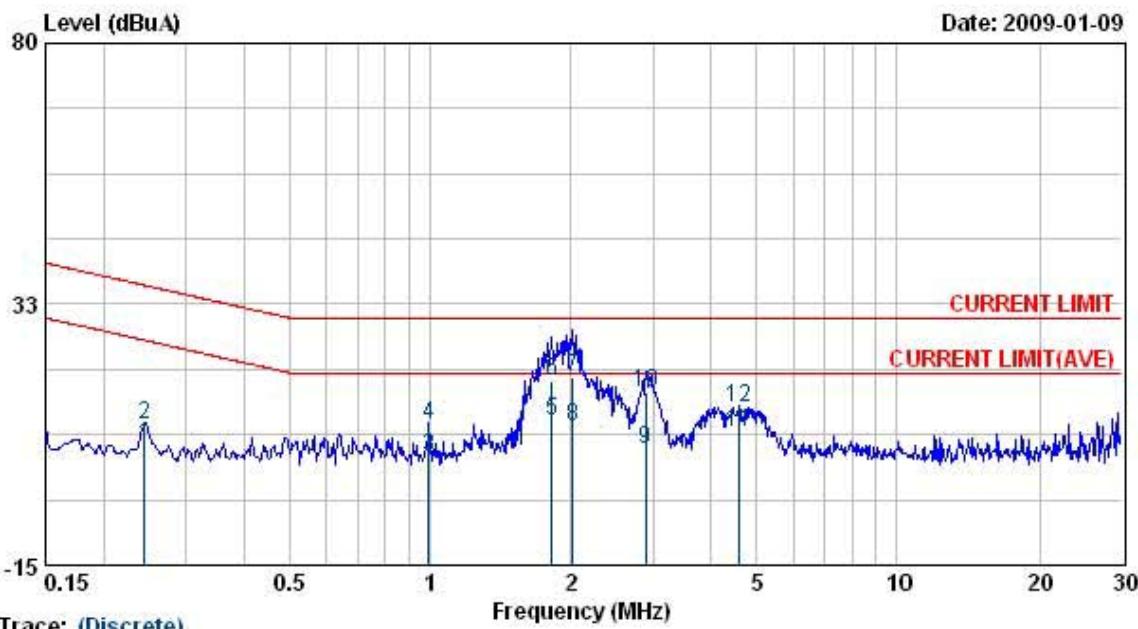


| Item | Freq | Read Value |      | Factor | Result | Limit | Margin | Remark  |
|------|------|------------|------|--------|--------|-------|--------|---------|
|      |      | MHz        | dBuA |        |        |       |        |         |
| 1    | 0.24 | 6.39       | 0.28 | 0.28   | 6.67   | 25.95 | -19.28 | AVERAGE |
| 2    | 0.24 | 10.22      | 0.28 | 0.28   | 10.50  | 35.95 | -25.45 | QP      |
| 3    | 0.99 | 4.52       | 0.32 | 0.32   | 4.84   | 20.00 | -15.16 | AVERAGE |
| 4    | 0.99 | 10.36      | 0.32 | 0.32   | 10.68  | 30.00 | -19.32 | QP      |
| 5    | 1.82 | 10.99      | 0.32 | 0.32   | 11.31  | 20.00 | -8.69  | AVERAGE |
| 6    | 1.82 | 18.70      | 0.32 | 0.32   | 19.02  | 30.00 | -10.98 | QP      |
| 7    | 2.02 | 18.92      | 0.32 | 0.32   | 19.24  | 30.00 | -10.76 | QP      |
| 8    | 2.02 | 9.78       | 0.32 | 0.32   | 10.10  | 20.00 | -9.90  | AVERAGE |
| 9    | 2.90 | 5.36       | 0.32 | 0.32   | 5.69   | 20.00 | -14.31 | AVERAGE |
| 10   | 2.90 | 15.98      | 0.32 | 0.32   | 16.30  | 30.00 | -13.70 | QP      |
| 11   | 4.57 | 8.50       | 0.33 | 0.33   | 8.83   | 20.00 | -11.17 | AVERAGE |
| 12   | 4.57 | 12.26      | 0.33 | 0.33   | 12.59  | 30.00 | -17.41 | QP      |

Remarks: 1. Result = Read Value + Factor  
2. Factor = LISN(ISN) Factor + Cable Loss



|                |                  |               |       |
|----------------|------------------|---------------|-------|
| Power :        | From POE         | Temperature : | 23 °C |
| Test Mode 12 : | 802.11n HT40 CH3 | Humidity :    | 51 %  |
| Memo :         |                  |               |       |



| Item | Freq | Read  | Factor | Result | Limit | Margin | Remark  |
|------|------|-------|--------|--------|-------|--------|---------|
|      |      | Value |        |        |       |        |         |
|      | MHz  | dBuA  | dB     | dBuA   | dBuA  | dBuA   |         |
| 1    | 0.24 | 6.54  | 0.28   | 6.82   | 25.95 | -19.13 | AVERAGE |
| 2    | 0.24 | 10.25 | 0.28   | 10.53  | 35.95 | -25.42 | QP      |
| 3    | 0.99 | 4.32  | 0.32   | 4.64   | 20.00 | -15.36 | AVERAGE |
| 4    | 0.99 | 10.24 | 0.32   | 10.56  | 30.00 | -19.44 | QP      |
| 5    | 1.82 | 10.80 | 0.32   | 11.12  | 20.00 | -8.88  | AVERAGE |
| 6    | 1.82 | 18.14 | 0.32   | 18.46  | 30.00 | -11.54 | QP      |
| 7    | 2.02 | 18.93 | 0.32   | 19.25  | 30.00 | -10.75 | QP      |
| 8    | 2.02 | 9.78  | 0.32   | 10.10  | 20.00 | -9.90  | AVERAGE |
| 9    | 2.90 | 5.58  | 0.32   | 5.90   | 20.00 | -14.10 | AVERAGE |
| 10   | 2.90 | 15.96 | 0.32   | 16.28  | 30.00 | -13.72 | QP      |
| 11   | 4.57 | 9.00  | 0.33   | 9.33   | 20.00 | -10.67 | AVERAGE |
| 12   | 4.57 | 13.30 | 0.33   | 13.63  | 30.00 | -16.37 | QP      |

Remarks: 1. Result = Read Value + Factor  
2. Factor = LISN(ISN) Factor + Cable Loss

Test engineer: Ben